

COST ESTIMATE FOR PLACEMENT ALTERNATIVES FOR THE GIWW,
PORT ISABEL TO CORPUS CHRISTI BAY

Estimate #	Reach	Segment/PA	Dredging Method	Disposal Site	Dredging Volume per Cycle (CY)	No. of Dredging Episodes (each)	Dredging Time per Cycle (months)	Dredging Costs per Cycle							Dredging Costs for 50-Year Period						
								Mob/Demob (\$)	Dredging (\$)	Site Prep (\$)	Sub-total (\$)	Contingency (\$)	Unit Cost (\$/CY)	Total Cost w/Markups (\$)	Mob/Demob (\$)	Dredging (\$)	Site Prep (\$)	Sub-total (\$)	Contingency (\$)	Unit Cost (\$/CY)	Total Cost w/Markups (\$)
1-1-01	1	1-3	Hydraulic	Current PA	1,769,023	8.31	2.40	\$390,075	\$2,494,322	\$0	\$2,884,397	\$576,879	\$1.96	\$3,893,936	\$3,241,523	\$20,727,816	\$0	\$23,969,339	\$4,793,868	\$1.96	\$32,358,608
1-2-04	2	4-5	Hydraulic	Current PA	1,597,104	14.74	2.41	\$394,849	\$2,523,424	\$0	\$2,918,273	\$583,655	\$2.19	\$3,939,669	\$5,820,074	\$37,195,270	\$0	\$43,015,344	\$8,603,069	\$2.19	\$58,070,721
1-3-06	3	6-9	Hydraulic	Current PA	2,034,207	7.39	3.51	\$416,865	\$3,580,204	\$0	\$3,997,069	\$799,414	\$2.36	\$5,396,043	\$3,080,632	\$26,457,708	\$0	\$29,538,340	\$5,907,668	\$2.36	\$39,876,758
1-4-10	4	10-13	Hydraulic	Current PA	1,981,313	12.17	2.80	\$403,076	\$2,971,970	\$0	\$3,375,046	\$675,009	\$2.04	\$4,556,312	\$4,905,435	\$36,168,875	\$0	\$41,074,310	\$8,214,862	\$2.04	\$55,450,317
1-5-14	5	14-15	Hydraulic	Current PA	532,176	6.03	1.08	\$398,732	\$1,138,857	\$0	\$1,537,589	\$307,518	\$3.47	\$2,075,745	\$2,404,354	\$6,867,308	\$0	\$9,271,662	\$1,854,332	\$3.47	\$12,516,742
1-6-16	6	16-18	Hydraulic	Current PA	1,044,985	17.76	1.23	\$395,248	\$1,295,781	\$0	\$1,691,029	\$338,206	\$1.94	\$2,282,889	\$7,019,604	\$23,013,071	\$0	\$30,032,675	\$6,006,535	\$1.94	\$40,544,109
2A1-6-06	6	16-18	Hopper	Offshore	1,016,152	1	42.77	\$112,429	\$26,643,505	\$652,141	\$27,408,075	\$5,481,615	\$32.37	\$37,000,901	\$112,429	\$26,643,505	\$652,141	\$27,408,075	\$5,481,615		
						16.76	42.77	\$112,429	\$26,643,505	\$449,893	\$27,205,827	\$5,441,165	\$32.13	\$36,727,866	\$1,884,310	\$446,545,144	\$7,540,207	\$455,969,661	\$91,193,932	\$32.14	\$652,559,935
2A2-6-06	6	16-18	Hopper	Offshore	1,044,985	17.76	50.93	\$112,429	\$31,694,395	\$0	\$31,806,824	\$6,361,365	\$36.53	\$42,939,212	\$1,996,739	\$562,892,455	\$0	\$564,889,194	\$112,977,839	\$36.53	\$762,600,405
2B1-6-06A	6	16-18	Hydraulic-7 Scows	Offshore	1,044,985	17.76	1.28	\$1,524,562	\$3,929,144	\$0	\$5,453,706	\$1,090,741	\$6.26	\$7,362,503	\$27,076,221	\$69,781,597	\$0	\$96,857,819	\$19,371,564	\$6.26	\$130,758,055
2B1-6-06B	6	16-18	Hydraulic-6 Scows	Offshore	1,044,985	17.76	1.54	\$1,283,170	\$4,127,691	\$0	\$5,410,861	\$1,082,172	\$6.21	\$7,304,662	\$22,789,099	\$73,307,792	\$0	\$96,096,891	\$19,219,378	\$6.21	\$129,730,803
2B1-6-06C	6	16-18	Hydraulic-5 Scows	Offshore	1,044,985	17.76	1.93	\$1,193,056	\$4,211,290	\$0	\$5,404,346	\$1,080,869	\$6.21	\$7,295,867	\$21,188,675	\$74,792,510	\$0	\$95,981,185	\$19,196,237	\$6.21	\$129,574,600
2B1-6-06D	6	16-18	Hydraulic-4 Scows	Offshore	1,044,985	17.76	2.57	\$1,044,683	\$4,859,180	\$0	\$5,903,863	\$1,180,773	\$6.78	\$7,970,215	\$18,553,570	\$86,299,037	\$0	\$104,852,607	\$20,970,521	\$6.78	\$141,551,019
2B1-6-06E	6	16-18	Hydraulic-3 Scows	Offshore	1,044,985	17.76	3.86	\$1,073,892	\$5,789,217	\$0	\$6,863,109	\$1,372,622	\$7.88	\$9,265,197	\$19,072,322	\$102,816,494	\$0	\$121,888,816	\$24,377,763	\$7.88	\$164,549,901
2B1-6-06F	6	16-18	Hydraulic-2 Scows	Offshore	1,044,985	17.76	7.78	\$1,011,472	\$8,600,227	\$0	\$9,611,699	\$1,922,340	\$11.04	\$12,975,794	\$17,963,743	\$152,740,032	\$0	\$170,703,774	\$34,140,755	\$11.04	\$230,450,095
2B2-6-06A	6	16-18	Clamshell-3 scows	Offshore	1,044,985	17.76	2.55	\$1,087,826	\$3,803,745	\$0	\$4,891,571	\$978,314	\$5.62	\$6,603,621	\$19,319,790	\$67,554,511	\$0	\$86,874,301	\$17,374,860	\$5.62	\$117,280,309
2B2-6-06B	6	16-18	Clamshell-2 scows	Offshore	1,044,985	17.76	5.09	\$859,373	\$5,120,427	\$0	\$5,979,800	\$1,195,960	\$6.87	\$8,072,730	\$15,262,464	\$90,938,784	\$0	\$106,201,248	\$21,240,250	\$6.87	\$143,371,685
2C-1-01C	1	1	Hydraulic	Offshore (2 mi.)	529,897	3.09	1.16	\$739,695	\$2,363,341	\$2,452,276	\$5,555,312	\$1,111,062	\$12.58	\$7,499,671	\$2,285,658	\$7,302,724	\$7,577,533	\$17,165,914	\$3,433,183	\$12.58	\$23,173,983
2C-4-02B	4	13	Hydraulic	Offshore (2 mi.)	360,990	14.48	1.22	\$896,809	\$3,035,926	\$6,921,202	\$10,853,937	\$2,170,787	\$36.08	\$14,652,815	\$12,985,794	\$43,960,208	\$100,219,005	\$157,165,008	\$31,433,002	\$36.08	\$212,172,761
2C-5-03B	5	14-15	Hydraulic	Offshore (2 mi.)	532,176	6.03	1.91	\$880,585	\$5,124,855	\$8,975,470	\$14,980,910	\$2,996,182	\$33.78	\$20,224,229	\$5,309,928	\$30,902,876	\$54,122,084	\$90,334,887	\$18,066,977	\$33.78	\$121,952,101
2C-6-04B	6	16-18	Hydraulic	Offshore (2 mi.)	1,044,985	17.76	2.54	\$858,300	\$6,468,457	\$4,406,202	\$11,732,959	\$2,346,592	\$13.47	\$15,839,495	\$15,243,408	\$114,879,796	\$78,254,148	\$208,377,352	\$41,675,470	\$13.47	\$281,309,431
3A-1-01	1	1-3	Hydraulic	Upland/Confined	1,769,023	1	2.65	\$652,117	\$4,794,052	\$10,206,928	\$15,653,097	\$3,130,619	\$10.62	\$21,131,681	\$652,117	\$4,794,052	\$10,206,928	\$15,653,097	\$3,130,619		
						7.31	2.65	\$652,117	\$4,794,052	\$7,385,184	\$12,831,353	\$2,566,271	\$8.70	\$17,322,327	\$4,766,975	\$35,044,520	\$53,985,695	\$93,797,190	\$18,759,438	\$8.93	\$147,757,891
3A-2-04	2	4-5	Hydraulic	Upland/Confined	1,597,104	1	2.66	\$669,519	\$4,887,138	\$4,307,595	\$9,864,252	\$1,972,850	\$7.41	\$13,316,740	\$669,519	\$4,887,138	\$4,307,595	\$9,864,252	\$1,972,850		
						13.74	2.66	\$669,519	\$4,887,138	\$2,357,864	\$7,914,521	\$1,582,904	\$5.95	\$10,684,603	\$9,199,191	\$67,149,276	\$32,397,051	\$108,745,519	\$21,749,104	\$6.05	\$160,123,185
3A-3-06	3	6-9	Hydraulic	Upland/Confined	2,034,207	1	3.15	\$416,865	\$3,580,204	\$7,068,469	\$11,065,538	\$2,213,108	\$6.53	\$14,938,476	\$416,865	\$3,580,204	\$7,068,469	\$11,065,538	\$2,213,108		
						6.39	3.15	\$416,865	\$3,580,204	\$1,076,666	\$5,073,735	\$1,014,747	\$2.99	\$6,849,542	\$2,663,767	\$22,877,504	\$6,879,896	\$32,421,167	\$6,484,233	\$3.47	\$58,707,051
3A-4-10	4	10-13	Hydraulic	Upland/Confined	1,981,313	1	3.01	\$674,880	\$5,547,676	\$7,903,148	\$14,125,704	\$2,825,141	\$8.56	\$19,069,700	\$674,880	\$5,547,676	\$7,903,148	\$14,125,704	\$2,825,141		
						11.17	3.01	\$674,880	\$5,547,676	\$4,571,034	\$10,793,590	\$2,158,718	\$6.54	\$14,571,347	\$7,538,410	\$61,967,541	\$51,058,450	\$120,564,400	\$24,112,880	\$6.70	\$181,831,646
3A-5-14	5	14-15	Hydraulic	Upland/Confined	532,176	1	1.39	\$664,341	\$2,570,410	\$8,550,108	\$11,784,859	\$2,356,972	\$26.57	\$15,909,560	\$664,341	\$2,570,410	\$8,550,108	\$11,784,859	\$2,356,972		
						5.03	1.39	\$664,341	\$2,570,410	\$4,043,925	\$7,278,676	\$1,455,735	\$16.41	\$9,826,213	\$3,341,635	\$12,929,162	\$20,340,943	\$36,611,740	\$7,322,348	\$18.10	\$65,335,411
3A-6-16	6	16-18	Hydraulic	Upland/Confined	1,044,985	1	1.86	\$683,512	\$3,521,599	\$7,707,412	\$11,912,523	\$2,382,505	\$13.68	\$16,081,906	\$683,512	\$3,521,599	\$7,707,412	\$11,912,523	\$2,382,505		
						16.76	1.86	\$683,512	\$3,521,599	\$5,605,032	\$9,810,143	\$1,962,029	\$11.27	\$13,243,693	\$11,455,661	\$59,021,999	\$93,940,336	\$164,417,997</			

COST ESTIMATE FOR PLACEMENT ALTERNATIVES FOR THE GIWW,
PORT ISABEL TO CORPUS CHRISTI BAY

Estimate #	Reach	Segment/PA	Dredging Method	Disposal Site	Dredging Volume per Cycle (CY)	No. of Dredging Episodes (each)	Dredging Time per Cycle (months)	Dredging Costs per Cycle							Dredging Costs for 50-Year Period						
								Mob/Demob (\$)	Dredging (\$)	Site Prep (\$)	Sub-total (\$)	Contingency (\$)	Unit Cost (\$/CY)	Total Cost w/Markups (\$)	Mob/Demob (\$)	Dredging (\$)	Site Prep (\$)	Sub-total (\$)	Contingency (\$)	Unit Cost (\$/CY)	Total Cost w/Markups (\$)
5A1-4-01A	4	220-221	Hydraulic-4 Scows	Offshore	330,972	14.81	0.45	\$1,014,848	\$1,009,465	\$0	\$2,024,313	\$404,863	\$7.34	\$2,732,823	\$15,029,899	\$14,950,177	\$0	\$29,980,076	\$5,996,015	\$7.34	\$40,473,102
5A1-4-01B	4	220-221	Hydraulic-3 Scows	Offshore	330,972	14.81	0.68	\$1,005,044	\$1,194,809	\$0	\$2,199,853	\$439,971	\$7.98	\$2,969,802	\$14,884,702	\$17,695,121	\$0	\$32,579,823	\$6,515,965	\$7.98	\$43,982,761
5A1-4-01C	4	220-221	Hydraulic-2 Scows	Offshore	330,972	14.81	1.36	\$721,827	\$1,601,904	\$0	\$2,323,731	\$464,746	\$8.43	\$3,137,037	\$10,690,258	\$23,724,198	\$0	\$34,414,456	\$6,882,891	\$8.43	\$46,459,516
5A1-4-03A	4	220-221	Clamshell-3 Scows	Offshore	330,972	14.81	0.98	\$1,087,826	\$1,317,269	\$0	\$2,405,095	\$481,019	\$8.72	\$3,246,878	\$16,110,703	\$19,508,754	\$0	\$35,619,457	\$7,123,891	\$8.72	\$48,086,263
5A1-4-03B	4	220-221	Clamshell-2 Scows	Offshore	330,972	14.81	1.19	\$823,472	\$1,320,578	\$0	\$2,144,050	\$428,810	\$7.77	\$2,894,468	\$12,195,620	\$19,557,760	\$0	\$31,753,381	\$6,350,676	\$7.77	\$42,867,071
5A2-4-01	4	220-221	Hopper	Offshore	315,658	1	9.43	\$118,187	\$6,164,801	\$449,154	\$6,732,142	\$1,346,428	\$25.59	\$9,088,392	\$118,187	\$6,164,801	\$449,154	\$6,732,142	\$1,346,428		
						13.81	9.43	\$118,187	\$6,164,801	\$339,854	\$6,622,842	\$1,324,568	\$25.18	\$8,940,837	\$1,632,162	\$85,135,902	\$4,693,384	\$91,461,448	\$18,292,290	\$25.21	\$132,561,351
5A3-4-01	4	220-221	Hydraulic	Offshore (2 mi.)	330,972	14.81	1.03	\$921,322	\$2,601,440	\$0	\$3,522,762	\$704,552	\$12.77	\$4,755,729	\$13,644,779	\$38,527,326	\$0	\$52,172,105	\$10,434,421	\$12.77	\$70,432,346
5B1-5-01A	6	233-234	Hydraulic-7 Scows	Offshore	620,286	26.26	0.82	\$1,530,241	\$2,443,927	\$0	\$3,974,168	\$794,834	\$7.69	\$5,365,127	\$40,184,129	\$64,177,523	\$0	\$104,361,652	\$20,872,330	\$7.69	\$140,888,230
5B1-5-01B	6	233-234	Hydraulic-6 Scows	Offshore	620,286	26.26	0.98	\$1,289,985	\$2,605,201	\$0	\$3,895,186	\$779,037	\$7.54	\$5,258,501	\$33,875,006	\$68,412,578	\$0	\$102,287,584	\$20,457,517	\$7.54	\$138,088,239
5B1-5-01C	6	233-234	Hydraulic-5 Scows	Offshore	620,286	26.26	1.23	\$1,275,981	\$2,791,287	\$0	\$4,067,268	\$813,454	\$7.87	\$5,490,812	\$33,507,261	\$73,299,197	\$0	\$106,806,458	\$21,361,292	\$7.87	\$144,188,718
5B1-5-01D	6	233-234	Hydraulic-4 Scows	Offshore	620,286	26.26	1.64	\$1,056,092	\$3,082,821	\$0	\$4,138,913	\$827,783	\$8.01	\$5,587,533	\$27,732,976	\$80,954,879	\$0	\$108,687,855	\$21,737,571	\$8.01	\$146,728,605
5B1-5-01E	6	233-234	Hydraulic-3 Scows	Offshore	620,286	26.26	2.46	\$1,091,081	\$3,665,890	\$0	\$4,756,971	\$951,394	\$9.20	\$6,421,911	\$28,651,787	\$96,266,271	\$0	\$124,918,058	\$24,983,612	\$9.20	\$168,639,379
5B1-5-01F	6	233-234	Hydraulic-2 Scows	Offshore	620,286	26.26	4.96	\$1,046,370	\$5,464,720	\$0	\$6,511,090	\$1,302,218	\$12.60	\$8,789,972	\$27,477,676	\$143,503,547	\$0	\$170,981,223	\$34,196,245	\$12.60	\$230,824,652
5B1-5-02A	6	233-234	Clamshell-4 Scows	Offshore	620,286	26.26	1.51	\$1,361,167	\$2,493,550	\$0	\$3,854,717	\$770,943	\$7.46	\$5,203,868	\$35,744,245	\$65,480,623	\$0	\$101,224,868	\$20,244,974	\$7.46	\$136,653,574
5B1-5-02B	6	233-234	Clamshell-3 Scows	Offshore	620,286	26.26	1.57	\$1,089,689	\$2,326,073	\$0	\$3,415,762	\$683,152	\$6.61	\$4,611,279	\$28,615,233	\$61,082,677	\$0	\$89,697,910	\$17,939,582	\$6.61	\$121,092,187
5B1-5-02C	6	233-234	Clamshell-2 Scows	Offshore	620,286	26.26	3.15	\$863,068	\$3,151,053	\$0	\$4,014,121	\$802,824	\$7.77	\$5,419,063	\$22,664,166	\$82,746,652	\$0	\$105,410,817	\$21,082,163	\$7.77	\$142,304,594
5B2-5-01	6	233-234	Hopper	Offshore	610,675	1	25.13	\$112,429	\$15,639,387	\$373,349	\$16,125,165	\$3,225,033	\$31.69	\$21,768,973	\$112,429	\$15,639,387	\$373,349	\$16,125,165	\$3,225,033		
						25.26	25.13	\$112,429	\$15,639,387	\$291,792	\$16,043,608	\$3,208,722	\$31.53	\$21,658,871	\$2,839,957	\$395,050,916	\$7,370,666	\$405,261,538	\$81,052,308	\$31.53	\$568,872,054
5B3-5-01B	6	233-234	Hydraulic	Offshore (2 mi.)	620,286	26.26	1.35	\$742,699	\$2,797,490	\$3,977,631	\$7,517,820	\$1,503,564	\$14.54	\$10,149,057	\$19,503,276	\$73,462,087	\$104,452,590	\$197,417,953	\$39,483,591	\$14.54	\$266,514,237
5C1-4-01	4	10-13	Hopper	Offshore	1,958,342	1	80.59	\$112,429	\$50,153,139	\$582,579	\$50,848,147	\$10,169,629	\$31.16	\$68,644,998	\$112,429	\$50,153,139	\$582,579	\$50,848,147	\$10,169,629		
						11.17	80.59	\$112,429	\$50,153,139	\$413,694	\$50,679,262	\$10,135,852	\$31.05	\$68,417,004	\$1,255,832	\$560,210,563	\$4,620,962	\$566,087,357	\$113,217,471	\$31.06	\$832,862,933
5C1-5-02	5	14-15	Hopper	Offshore	523,022	1	26.18	\$112,429	\$16,292,135	\$482,316	\$16,886,880	\$3,377,376	\$38.74	\$22,797,288	\$112,429	\$16,292,135	\$482,316	\$16,886,880	\$3,377,376		
						5.03	26.18	\$112,429	\$16,292,135	\$354,906	\$16,759,470	\$3,351,894	\$38.45	\$22,625,285	\$565,518	\$81,949,439	\$1,785,177	\$84,300,134	\$16,860,027	\$38.50	\$136,602,472
5C1-6-03	6	16-18	Hopper	Offshore	1,016,152	1	42.77	\$112,429	\$26,643,505	\$652,141	\$27,408,075	\$5,481,615	\$32.37	\$37,000,901	\$112,429	\$26,643,505	\$652,141	\$27,408,075	\$5,481,615		
						16.76	42.77	\$112,429	\$26,643,505	\$449,893	\$27,205,827	\$5,441,165	\$32.13	\$36,727,866	\$1,884,310	\$446,545,144	\$7,540,207	\$455,969,661	\$91,193,932	\$32.14	\$652,559,935
5C2-5-02	5	14-15	Hopper	Offshore	532,176	6.03	24.64	\$112,429	\$15,331,991	\$0	\$15,444,420	\$3,088,884	\$34.83	\$20,849,967	\$677,947	\$92,451,906	\$0	\$93,129,853	\$18,625,971	\$34.83	\$125,725,301
5C2-6-03	6	16-18	Hopper	Offshore	1,044,985	17.76	50.93	\$112,429	\$31,694,395	\$0	\$31,806,824	\$6,361,365	\$36.53	\$42,939,212	\$1,996,739	\$562,892,455	\$0	\$564,889,194	\$112,977,839	\$36.53	\$762,600,405
DMMP - 1	1	1-3	Hydraulic	As per DMMP	1,769,023	8.31	2.4	\$394,405	\$2,432,604	\$870,826	\$3,697,835	\$739,567	\$2.51	\$4,992,077	\$3,277,506	\$20,214,939	\$7,236,564	\$30,729,009	\$6,145,802	\$2.51	\$41,484,160
DMMP - 2	2	4-5	Hydraulic	As per DMMP	1,597,104	1	2.41	\$400,462	\$2,523,424	\$1,407,622	\$4,331,508	\$866,302	\$3.25	\$5,847,536	\$400,462	\$2,523,424	\$1,407,622	\$4,331,508	\$866,302		
						13.74	2.41	\$400,462	\$2,523,424	\$224,929	\$3,148,815	\$629,763	\$2.37	\$4,250,900	\$5,502,348	\$34,671,846	\$3,090,524	\$43,264,718	\$8,652,944	\$2.43	\$64,254,902
DMMP - 3	3	6-9	Hydraulic	As per DMMP	2,034,207	1	3.71	\$416,596	\$3,874,888	\$1,098,559	\$5,390,043	\$1,078,009	\$3.18	\$7,276,558	\$416,596	\$3,874,888	\$1,098,559	\$5,390,043	\$1,078,009		
						6.39	3.71	\$416,596	\$3,874,888	\$935,002	\$5,226,486	\$1,045,297	\$3.08	\$7,055,756	\$2,662,048	\$24,760,534	\$5,974,663	\$33,397,246	\$6,679,449	\$3.10	\$52,362,839
DMMP - 4	4	10-13	Hydraulic	As per DMMP	1,981,313	1	2.8	\$403,530	\$2,968,450	\$532,972	\$3,904,952	\$780,990	\$2.37	\$5,271,685	\$403,530	\$2,968,450	\$532,972	\$3,904,952	\$780,990		
						11.17	2.8	\$403,530	\$2,968,450	\$285,445	\$3,657,425	\$731,485	\$2.22	\$4,937,524	\$4,507,430	\$33,157,587	\$3,188,421	\$40,853,437	\$8,170,687	\$2.23	\$60,423,828
DMMP - 5	5	14-15	Hydraulic	As per DMMP	532,176	1	1.08	\$400,361	\$1,069,966	\$1,596,699	\$3,067,026	\$613,405	\$6.92	\$4,140,485	\$400,361	\$1,069,966	\$1,596,699	\$3,067,026	\$613,405		
						5.03	1.08	\$400,361	\$1,069,966	\$362,980	\$1,833,307	\$366,661	\$4.13	\$2,474,964	\$2,013,816	\$5,381,929	\$1,825,789	\$9,221,534	\$1,844,307	\$4.60	\$16,589,554
DMMP - 6	6	16-18	Hydraulic	As per DMMP	1,044,985	17.76	1.25	\$395,938	\$1,307,965	\$0	\$1,703,903	\$340,781	\$1.96	\$2,300,269	\$7,031,859	\$23,229,458	\$0	\$30,261,317	\$6,052,263	\$1.96	\$40,852,777